



DECLARATION UNDER C.F.R. §1.131

1. We, Jerry Decime and Marc Nilson, employees of the Hewlett-Packard Company, are the inventors of the subject matter disclosed in U.S. Patent Application 09/882,940 (the "'940 application").
2. We conceived the subject matter of the '940 application at least as early as October 24, 2000, on which date we filled out an invention disclosure form of the Hewlett-Packard Company, a copy of which is attached hereto as Exhibit A and a typed transcription of a relevant portion of which is attached hereto as Exhibit B.
3. Upon information and belief, the invention disclosure form that described the subject matter of the '940 application was provided to the Hewlett-Packard legal department for the purpose of determining whether a patent application should be pursued.
4. Upon information and belief, the Hewlett-Packard legal department regularly and periodically reviews invention disclosure forms that are submitted for the purpose of determining whether patent applications should be prepared and filed.
5. Upon information and belief, it was determined that a patent application should be prepared and filed based upon our invention disclosure and that the invention disclosure was referred to outside counsel for preparation of a patent application.
6. Upon information and belief, Paul Qualey, Esquire of the law firm of Thomas, Kayden, Horstemeyer & Risley was sent a copy of the invention disclosure and was requested to prepare a U.S. patent application based upon the subject matter included therein.
7. David Risley, Esquire of Thomas, Kayden, Horstemeyer & Risley corresponded with me, Jerry Decime, and began preparation of a draft patent application for my review in April 2001.

8. We reviewed and approved the final draft of the application by the end of April 2001.

9. Upon information and belief, the final draft of the application, which we reviewed and approved, was sent to the Hewlett-Packard legal department by David Risley on May 4, 2001.

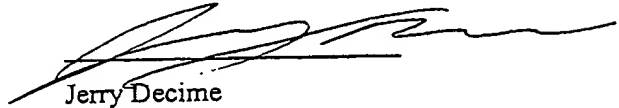
10. Upon information and belief, the Hewlett-Packard legal department receives and reviews inventor-approved final drafts of applications prior to allowing the applications to be filed. Upon approval by the Hewlett-Packard legal department, inventors are then requested to review the application and declaration and sign the declaration so that the application can be filed.

11. We went to the Hewlett-Packard legal department, reviewed the application and signed the declaration on May 29, 2001 so that the application could be filed with the U.S.P.T.O.

12. Upon information and belief, the Hewlett-Packard Company filed the patent application that is now identified as the '940 application was filed with the U.S.P.T.O. on June 15, 2001.

13. All circumstances associated with the subject matter of the '940 application, including conception and completion, took place in the United States.

I hereby declare: (a) that all statements made herein of my own knowledge are true; (b) that all statements made on information and belief are believed to be true; (c) that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code; and (d) that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



Jerry Decime

Date: 7-25-05



Marc Nilson

Date: 7-25-05

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# INVENTION DISCLOSURE

PAGE ONE OF \_\_\_\_

PDNO

10008055

DATE RCVD

Oct 24, 2000

ATTORNEY

RCM

Instructions: The information contained in this document is COMPANY CONFIDENTIAL and may not be disclosed to others without prior authorization. Submit this disclosure to the HP Legal Department as soon as possible. No patent protection is possible until a patent application is authorized, prepared, and submitted to the Government.

Descriptive Title of Invention:

The Internet Search Spell Checker

Name of Project:-

Product Name or Number:

Was a description of the invention published, or are you planning to publish? If so, the date(s) and publication(s):

Was a product including the invention announced, offered for sale, sold, or is such activity proposed? If so, the date(s) and location(s):

Was the invention disclosed to anyone outside of HP, or will such disclosure occur? If so, the date(s) and name(s):

If any of the above situations will occur within 3 months, call your IP attorney or the Legal Department now at 1-898-4919 or 970-898-4919.

Was the invention described in a lab book or other record? If so, please identify (lab book #, etc.)

Was the invention built or tested? If so, the date:

Was this invention made under a government contract? If so, the agency and contract number:

Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

- A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.)
- B. Advantages of the invention over what has been done before.
- C. Problems solved by the invention.
- D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

Signature of Inventor(s): Pursuant to my (our) employment agreement, I (we) submit this disclosure on this date: [ ]

|              |              |             |        |          |                   |
|--------------|--------------|-------------|--------|----------|-------------------|
| Employee No. | Name         | Signature   | Telnet | Mailstop | Entity & Lab Name |
|              | Jerry Decine | [Signature] |        |          | CES               |

|              |             |             |        |          |                   |
|--------------|-------------|-------------|--------|----------|-------------------|
| Employee No. | Name        | Signature   | Telnet | Mailstop | Entity & Lab Name |
|              | Mark Wilson | [Signature] |        |          | CES               |

|              |      |           |        |          |                   |
|--------------|------|-----------|--------|----------|-------------------|
| Employee No. | Name | Signature | Telnet | Mailstop | Entity & Lab Name |
|--------------|------|-----------|--------|----------|-------------------|

|              |      |           |        |          |                   |
|--------------|------|-----------|--------|----------|-------------------|
| Employee No. | Name | Signature | Telnet | Mailstop | Entity & Lab Name |
|--------------|------|-----------|--------|----------|-------------------|

(If more than four inventors, include additional information on another copy of this form and attach to this document)

EXHIBIT A  
PAGE 1 OF 4

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|  |           |                             |                     |
|--|-----------|-----------------------------|---------------------|
| <b>INVENTION DISCLOSURE</b>  |           | <b>COMPANY CONFIDENTIAL</b> | PAGE _____ OF _____ |
| <b>Signature of Witness(es):</b> <i>(Please try to obtain the signature of the person(s) to whom invention was first disclosed.)</i><br>The invention was first explained to, and understood by, me (us) on this date: [ _____ ] |           |                             |                     |
| Full Name  | Signature | Date of Signature           |                     |
| Full Name  | Signature | Date of Signature           |                     |

|   |  |                          |                             |
|---|--|--------------------------|-----------------------------|
| <b>Inventor &amp; Home Address Information:</b> <i>(If more than four inventors, include addtl. information on a copy of this form &amp; attach to this document)</i> |  |                          |                             |
| Inventor's Full Name<br><i>Jerry Decime</i>   |  |                          |                             |
| Street<br>_____   |  |                          |                             |
| City<br>_____   |  | State<br>_____           | Zip<br>_____                |
| Do you have a Residential P.O. Address? P.O. BOX _____  |  | City<br>_____            | State<br>_____ Zip<br>_____ |
| Greeted as <i>(nickname, middle name, etc.)</i> _____   |  | Citizenship<br><i>US</i> |                             |

|   |                |
|---|----------------|
| Inventor's Full Name                            |                |
| Marc Nilson                                     |                |
| Street  |                |
|   |                |
| City  | State Zip      |
|   |                |
| Do you have a Residential P.O. Address? P O BOX | City State Zip |
|   |                |
| Greeted as (nickname, middle name, etc.)        | Citizenship    |

|  |  |             |           |
|--|--|-------------|-----------|
| Inventor's Full Name                             |  |             |           |
| Street   |  |             |           |
| City   |  | State       | Zip       |
| Do you have a Residential P.O. Address? P.O. BOX |  | City        | State Zip |
| Greeted as (nickname, middle name, etc.)         |  | Citizenship |           |

|   |  |             |           |
|---|--|-------------|-----------|
| Inventor's Full Name                            |  |             |           |
| Street  |  |             |           |
| City  |  | State       | Zip       |
| Do you have a Residential P.O. Address? P O BOX |  | City        | State Zip |
| Greeted as (nickname, middle name, etc.)        |  | Citizenship |           |

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Description of Invention: Please preserve all records of the invention and attach additional pages for the following. Each additional page should be signed and dated by the inventor(s) and witness(es).

A. Description of the construction and operation of the invention (include appropriate schematic, block, & timing diagrams; drawings; samples; graphs; flowcharts; computer listings; test results; etc.) All spell checkers are limited by the physical dictionary on the hard-disk. To overcome this, some applications make a connection to a central dictionary service on the Internet. While this does ensure that most words are found, it still doesn't catch "new" words, complex word combinations, etc. To overcome this, the system described here, after not finding a word in an offline or online dictionary will post the unfound word and several derivations of the word to an Internet search engine. It will then recommend the most likely spelling based on the number of search results.

B. Advantages of the invention over what has been done before. This process for checking a word based on its "Internet Popularity" allows a spell checker to have a "recommendation" for almost any word that could exist, including foreign language words. It relies on a dictionary that is theoretically unlimited in terms of the number and combinations of words possible. In short, this is a universal dictionary.

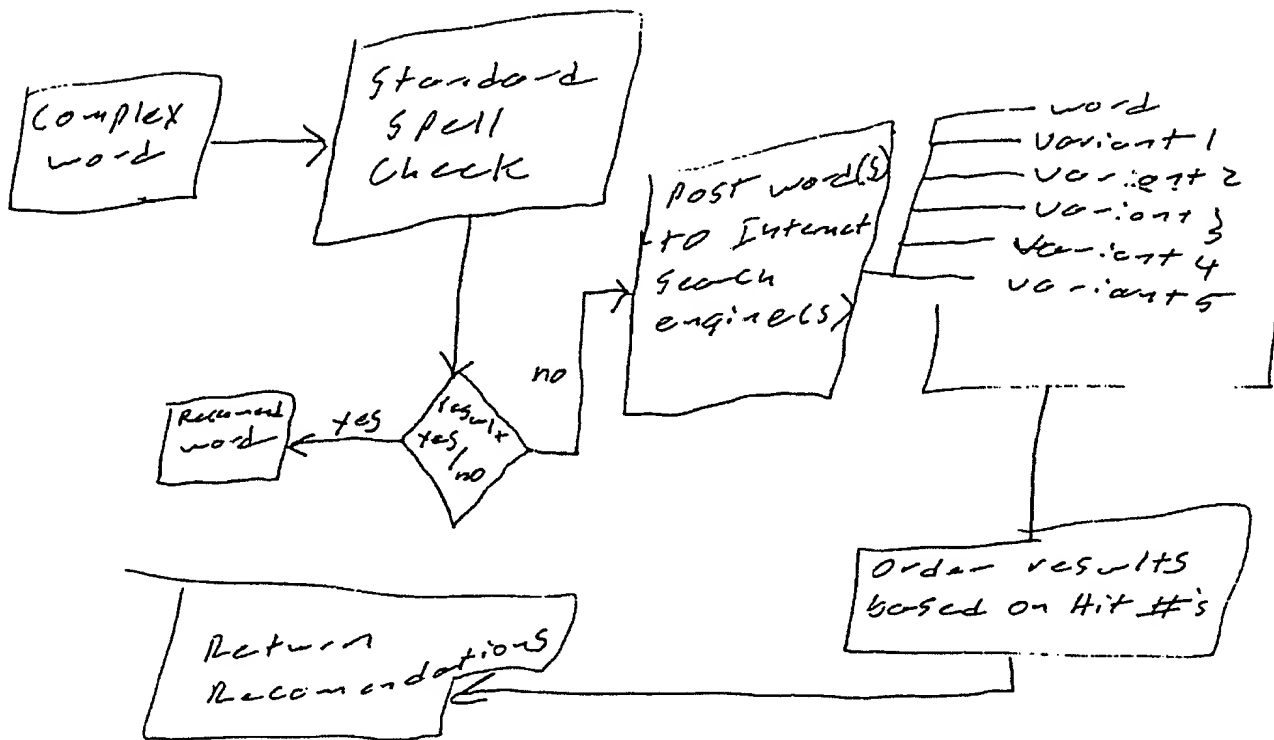
C. Problems solved by the invention.

A spelling recommendation engine, web based, local, etc., will never return "no results" or a no recommendation for the spelling of a word. As new words enter a language, there is no need to update a dictionary.

D. Prior solutions and their disadvantages (if available, attach copies of product literature, technical articles, patents, etc.).

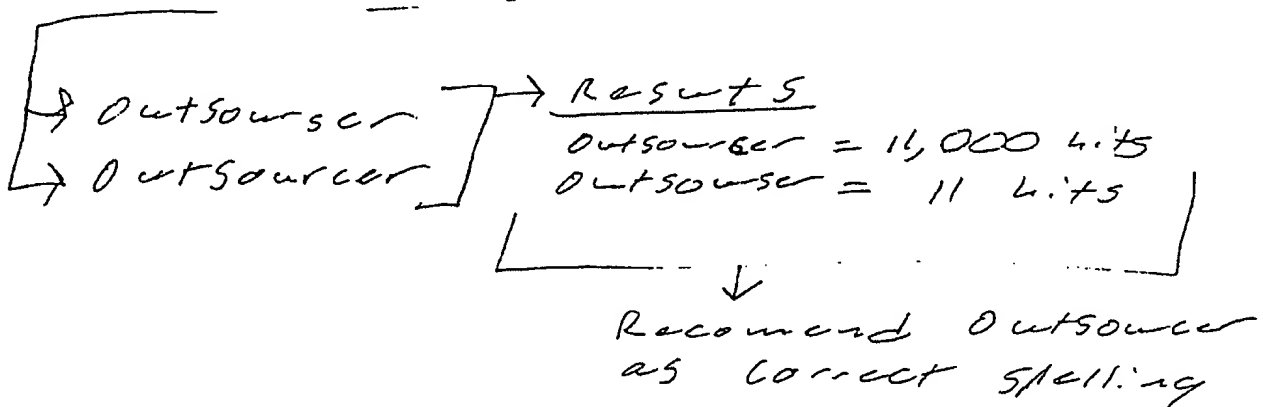
All existing spell check applications and services rely on a dictionary which is only as good as its limited maintenance. The Internet is maintained by millions of people and thus contains billions of words.

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Example:

Outsourser → not in dictionary → Post to search



A. All spell checkers are limited by the physical dictionary on the hard-drive. To overcome this, some applications make a connection to a central dictionary service on the Internet. While this does ensure that most words are found, it still doesn't catch "new" words, complex word combinations, etc. To overcome this, the system described here, after not finding a word in an offline or online dictionary will post the unfound word and several deviations of the word to an Internet search engine. It will then recommend the most likely spelling based on the number of search results.

B. This process for checking a word based on its "Internet Popularity" allows a spell checker to have a "recommendation" for almost any word that could exist, including foreign language words. It relies on a dictionary that is theoretically unlimited in terms of the number and combinations of words possible. In short, this is a universal dictionary.

C. A spelling recommendation engine, web based, local, etc., will never return "no results" or a no recommendation the spelling of a word. As new words enter a language, there is no need to update a dictionary.

D. All existing spell check applications and services rely on a dictionary which is only as good as its limited maintainers. The Internet is maintained by millions of people and thus contains billions of words.